

# **Visual Analysis Report**

## Proposed Telecommunications Facility

### **Site A - 160' Monopole:**

Rabbit Hill Road  
Warren, CT 06777

### **Site B - 150' Monopole:**

Rabbit Hill Road  
Warren, CT 06777

February 2009 - Revision 1

**Prepared for:**

Optasite Towers, LLC  
1 Research Drive, Suite 200C  
Westborough, MA 01581

**Prepared by:**

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CHA Project 15363-1028-1601  
15363-1040-1601

## **INTRODUCTION:**

Clough Harbour & Associates LLP (CHA) conducted a visibility study for the proposed 160'-0" monopole located at Site A and proposed 150'-0" monopole located at Site B in Warren, CT. The purpose of the study was to determine the visual impact, if any, that a proposed monopole would have on the surrounding community within a two mile radius study area of both Site A and Site B. Another purpose of the study was to compare the visual impact for both Site A and Site B to determine which location will have a more substantial impact on the surrounding community. Two techniques were utilized to determine the visual impact within the study area for both Site A and Site B: a computer model using topography and vegetation as constraints to estimate the visual limits and a field analysis to verify the visual limits determined from the computer model. The results of this analysis were then compared for the two sites. Research of the study area was also conducted to determine locations of sensitive visual receptors for both Site A and Site B.

## **SITE & STUDY AREA DESCRIPTION:**

The subject parcel for Site A is approximately 106.0 acres. A majority of the parcel is open farm land with a wooded area on the Southeast portion of the property. The proposed facility is located within the wooded area on the South corner of the property. The proposed facility is located approximately 1161' southeast of the existing residence. The base of the tower will be 1093' AMSL. The wooded area surrounding the proposed facility will act as a visual buffer to the adjacent residential and wooded parcels.

The subject parcel for Site B is the same as for Site A, approximately 106.0 acres. A majority of the parcel is open farm land with a wooded area on the Southeast portion of the property. The proposed facility is located to the southeast of the farm building within the open field area, adjacent to the wooded area on the South corner of the property. The proposed facility is located approximately 446' southeast of the existing residence. The base of the tower will be 1154' AMSL. There are small trees near the proposed facility that will provide a minimal visual buffer.

For both Site A and Site B, the topography within the study area consists of hills ranging from 700' AMSL to 1200' AMSL. Approximately 5,700 acres, or 71%, of the 8,053 acre study area is covered with vegetation. The rolling hills and heavy vegetation in the study area will help screen the facility in the surrounding study area. Watercourses occupy approximately 282 acres, or 3.5%, of the study area. There are no historical sites, four parks/recreational areas, one school, and no cemeteries or churches within the study area. There are designated scenic roads along Route 45/SR 478, Whittlesey Road, Rabbit Hill Road, Couch Road and Route 202 within the study area.

## **COMPUTER MODEL VISUAL ANALYSIS:**

A computer model was developed using a proprietary AutoCAD-based application developed by our Technology Solutions Group to estimate how the surrounding topography and vegetation within a 2 mile radius may obstruct the monopole's visibility. The visibility calculations are completed using digital

elevation models (DEM), which is a model of the earth's surface represented by a grid of elevations spaced 10 or 30 meters and is based on USGS topography maps. Each point in the DEM is independently tested for visibility based on the surrounding topography developed from the USGS maps. Once all points have been tested, a map is generated showing areas of visibility and areas screened by topography. Knowing which areas are screened by topography will assist in field determining which areas within the study area may have seasonal visibility. Next, vegetation within the study area is added to the map by digitizing it from 2004 aerial photographs. CHA's application utilizes a vegetation outline layer which is assigned the standard 65' height. A new map is generated showing only areas of visibility based on topography and the vegetation constraint. The visible areas on the map based on the surrounding topography and vegetation will be verified during the field visual analysis.

### **VISUAL RECEPTOR RESEARCH:**

Research of the surrounding study area was conducted to determine the locations of sensitive visual receptors such as historic sites, historic districts, schools, churches, cemeteries, parks, playgrounds, recreational areas, beaches, and scenic roads. Historic sites and districts were determined from national and state registers. Surrounding schools, churches, cemeteries, parks, playgrounds, recreational areas, and beaches were determined from street maps and town GIS data. Scenic roads were determined from the CTDOT list of designated scenic roads. All of the above sensitive visual receptors were added to the viewshed map.

### **FIELD VISUAL ANALYSIS:**

On November 20, 2008 a field visual analysis was conducted to verify the sensitive visual receptors and the limit of visibility determined from our research and computer model. Weather conditions were favorable on the date of the visibility study as it was a clear and sunny day with winds between 5 and 18 MPH; therefore, visibility of the balloon from surrounding areas was not affected. In general, the field visibility study was conducted as follows: one 5' diameter red balloon was flown at a height of 160'-0" above existing grade. Due to the thick vegetation in the area of the proposed tower, the balloon was flown 155' to the West in the open field adjacent to the Site A proposed location. Field data was adjusted in the office accordingly. One 5' diameter purple balloon was flown at a height of 160'-0" above existing grade at the Site B proposed location. (The tower height for Site B was subsequently reduced to 150' and the photosims and viewshed map were adjusted in the office accordingly). Once the balloons were flown, CHA completed a field drive of the surrounding area to determine the visibility of the balloons, and thus the proposed tower. Visibility from the sensitive visual receptors was our primary focus so photos were taken from each of these locations. Photos were also taken from major streets, intersections, and residential areas; from key areas where the balloon was visible; and from key areas where it was not visible. The limits of visibility determined from the computer model were field verified and adjusted as needed. Areas of potential seasonal visibility were field determined and marked on the viewshed map. All hiking trails were walked and checked for visibility. Finally, the number of residences within the seasonal and year round visible areas was determined.

**CONCLUSION:**

The results of our visual study are summarized in the following attachments: Attachment A: Site A Viewshed Map, Attachment B: Site A Photosims, Attachment C: Site B Viewshed Map, and Attachment D: Site B Photosims. The results are also summarized in a comparative format in the charts below:

<b>VISIBILITY COMPARISON CHART</b>					
<b>ITEM</b>	<b>SITE A</b>		<b>SITE B</b>		<b>LEAST VISUAL IMPACT</b>
<b>1. RESIDENCE COUNT</b>					
YEAR ROUND VISIBILITY					
Rabbit Hill Road	1		2		Site A
Jack Corner Road	2		2		Neither
Route 202	2		1		Site B
SEASONAL VISIBILITY					
Rabbit Hill Road	1		1		Neither
Jack Corner Road	0		0		Neither
Route 202	9		9		Neither
Whittlesey Road	1		1		Neither
<b>2. NON-VISIBLE AREAS</b>					
	Acres	%	Acres	%	
Screened by Topography	4435	55.1%	4692	58.3%	Site B
Screened by Vegetation	3482	43.2%	3236	40.1%	Site A
<b>3. VISIBLE AREAS</b>					
	Acres	%	Acres	%	
Year Round Visibility	121	1.5%	79	1.0%	Site B
Seasonal Visibility	15	0.2%	46	0.6%	Site A
<b>4. VISUAL RECEPTORS</b>					
Historic Sites	0		0		N/A
Parks/Recreational Areas	1		0		Site B
Schools	0		0		N/A

VIEWPOINT COMPARISON CHART				
VIEWPOINT	SITE A		SITE B	
	VISIBLE	DESCRIBE	VISIBLE	DESCRIBE
1	No	N/A	Yes	Upper 90' Year Round
2	No	N/A	Yes	Upper 90' Year Round
3	No	N/A	Yes	Upper 100' Year Round
4	Yes	Upper 10' thru trees Year Round Mid 30' Seasonally	Yes	Upper 90' Year Round
5	Yes	Upper 20' Year Round	Yes	Upper 90' Year Round
6	Yes	Upper 30' Year Round	Yes	Upper 40' Year Round
7	Yes	Upper 20' Year Round	No	Partial Upper 10' Seasonally
8	No	N/A	No	N/A
9	No	N/A	No	N/A
10	No	N/A	Yes	Upper 90' Seasonally
11	No	N/A	No	N/A
12	No	N/A	No	N/A
13	No	N/A	No	N/A
14	No	N/A	No	N/A
15	Yes	Upper 50' Seasonally	Yes	Upper 20' Seasonally
16	Yes	Upper 10' Year Round	Yes	Upper 110' Year Round
17	No	N/A	Yes	Upper 80' Year Round
18	Yes	Upper 40' Year Round	Yes	Upper 90' Year Round
19	Yes	Upper 60' Year Round	Yes	Upper 130' Year Round
20	No	N/A	Yes	Upper 50' Year Round
21	No	N/A	No	N/A
22	No	N/A	No	N/A
23	No	N/A	No	N/A
24	No	N/A	No	N/A
25	No	N/A	No	N/A
26	No	N/A	No	N/A
27	No	N/A	No	N/A

Most of the impact for both sites occurs within the surrounding residential neighborhoods. For year round residential impact, Site A will impact one less home on Rabbit Hill Road. The same amount of residences will be impacted on Jack Corner Road. Site B will impact one less residence on Route 202. For seasonal visual impact, the same amount of residences will be impacted on Route 202, Rabbit Hill Road, Jack Corner Road and Whittlesley Road. The differences in residences impacted by either site are minimal and neither site is preferable to the other based on residential impact.

Both sites also have similar acreages screened by topography and vegetation: Site B has slightly more acreage screened by topography and Site A has slightly more acreage screened by vegetation. The differences in areas screened by vegetation or topography are minimal and neither site is highly preferable to the other based on areas screened by vegetation and topography.

Both sites also have similar acreages with year round and seasonal visibility: Site B has slightly less acreage with year round visibility and Site A has slightly less acreage with seasonal visibility. The differences in year round and seasonal visible areas are minimal and neither site is highly preferable to the other based on seasonal and year round areas of visibility.

While both sites have viewpoints where they are visible, both year round as well as seasonally, there is a major difference between viewpoint visibility. Site B is visible from 14 of the 27 viewpoints, with 3 being visible only seasonally. Site A is visible from 8 of the 27 viewpoints, with 1 being visible only seasonally and another with increased visibility seasonally. Additionally, for those viewpoints that are visible year round, a greater portion of the Site B tower shows than those for Site A. Site A is preferable to the other based on viewpoint visibility.

Neither site is visible from historic sites, schools, churches or cemeteries. Site A is visible from a small portion of the Macricostas Preserve and from 3 scenic roads. Site B is visible from 3 scenic roads. There is no major advantage between the two sites when considering impact on surrounding visual receptors.

Based on the data in the Visibility Comparison Chart, the overall visibility is very similar for each site; however, the Viewpoint Comparison Chart illustrates one major difference between the two, as noted above. This is due to the physical location of the two proposed tower locations. Site B is in an open field with small trees nearby, while Site A is located within a wooded area. These surrounding trees offer a greater visual buffer to Site A, minimizing the times it can be seen, as well as the portion of the tower that can be seen at those times. Based on this one major difference, we are concluding Site A offers the least visual impact to the surrounding community that would make it the preferred choice based on visibility.

**ATTACHMENT A:  
Site A Viewshed Map**



- NOTES:
1. Only visible areas are shown on the map utilizing the process described in note 2. The remainder of the map has been estimated to be nonvisible utilizing the process described in note 3.
  2. Seasonal and year round areas of visibility were estimated from a field visual analysis within public R.O.W. and public properties. Areas shown on private property were interpolated from the field visual analysis.
  3. Nonvisible areas were estimated from a computer generated topography & vegetation analysis and field verification of vegetation & building screening within public R.O.W and public properties. Vegetation limits were determined from 2004 aerial photos and is assumed to be 65' high. Verification of vegetation height, coverage, and type within private areas not visible from public R.O.W or public properties was not field verified.
  4. Historical areas were determined from national and state historical registers.
  5. Parks, schools, cemeteries, and churches were determined from street maps and field observations.
  6. Scenic roads, if any, were determined from the CTDOT list of designated scenic roads and field observations.

**Legend**

APPROXIMATE LOCATION OF PROPOSED 160' MONOPOLE	COMPUTER SIMULATION PHOTOGRAPH LOCATION
APPROXIMATE LIMIT OF YEAR ROUND TOWER VISIBILITY	APPROXIMATE LIMIT OF SEASONAL TOWER VISIBILITY *COMPLETED DURING LEAF OFF CONDITIONS
CHURCH/CEMETERY	PARK
HISTORICAL SITE	SCHOOL
TRAIL OR SCENIC ROAD	

**Visibility by Acreage**

ITEM	APPROXIMATE ACRES	% OF TOTAL AREA
2 MILE RADIUS AREA	8,053	100%
NOT VISIBLE DUE TO TOPOGRAPHY	4,435	55.1%
NOT VISIBLE DUE TO VEGETATION	3,482	43.2%
VISIBLE YEAR ROUND	121	1.5%
POTENTIAL SEASONAL VISIBILITY	15	0.2%

**Distances from Photo Locations to Tower**

PHOTO	DIST. (FT)						
01	1,050	08	3,200	15	3,280	22	7,060
02	1,900	09	9,700	16	1,860	23	8,480
03	1,800	10	6,900	17	2,060	24	6,480
04	450	11	6,800	18	860	25	4,460
05	4,500	12	6,000	19	580	26	5,330
06	3,600	13	3,600	20	500	27	12,230
07	3,250	14	4,000	21	7,230		

**2 MILE VIEWSHED ANALYSIS MAP**  
**WARREN**  
**VISUAL IMPACT ASSESSMENT**

PREPARED FOR:

OPTASITE TOWERS LLC  
1 RESEARCH DRIVE, SUITE 200C  
WESTBOROUGH, MA 01581

PREPARED BY:

Drawing Copyright © 2008 Clough Harbour & Associates LLP

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DECEMBER 2008

0 625' 1250' 2500' 5000'

NORTH

FIGURE VS-01

<b>Historic Sites:</b> NO HISTORIC SITES WERE LOCATED WITHIN THE STUDY AREA	<b>Parks:</b> P01 WYANTNOCK STATE FOREST P02 MOUNT TOM STATE PARK P03 HIDDEN VALLEY RESERVATION P04 MACRICOSTAS PRESERVE	<b>Schools:</b> S01 RUMSEY HALL SCHOOL	<b>Church/Cemetery:</b> NO CHURCHES OR CEMETERIES WERE LOCATED WITHIN THE STUDY AREA	<b>Scenic Roads:</b> R01 ROUTE 45 / SR 478 LOOP AROUND LAKE WARAMAUG R02 WHITTLESEY ROAD R03 RABBIT HILL ROAD R04 COUCH ROAD R05 ROUTE 202 (PENDING SCENIC ROAD)
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**Visibility by Residence**

STREET	RESIDENCES
WHITTLESEY RD	1 (S)
ROUTE 202	2 (Y), 9 (S)
RABBIT HILL RD	1 (Y), 1 (S)
JACK CORNER RD	2 (Y)

(S) = SEASONAL VIEW  
(Y) = YEAR ROUND VIEW

**ATTACHMENT B:**  
**Site A Photosims**



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 1 - NON-VISIBLE VIEW  
FROM RABBIT HILL ROAD NEAR  
FARM HOUSE LOOKING SOUTHEAST  
TOWARD SITE



Optasite Towers LLC  
1 Research Drive, Suite 200C  
Westborough, MA 01581

DATE: DEC 2008

SITE: WARREN



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VIEW 2 - NON-VISIBLE VIEW  
FROM INTERSECTION OF RABBIT HILL  
ROAD AND JACK CORNER ROAD  
LOOKING SOUTHEAST TOWARD SITE



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VIEW 3 - NON-VISIBLE VIEW  
67 JACK CORNER ROAD LOOKING  
SOUTH TOWARD SITE



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VIEW 4 - EXISTING VIEW  
FROM RABBIT HILL ROAD LOOKING  
NORTH TOWARD SITE



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SITE: WARREN



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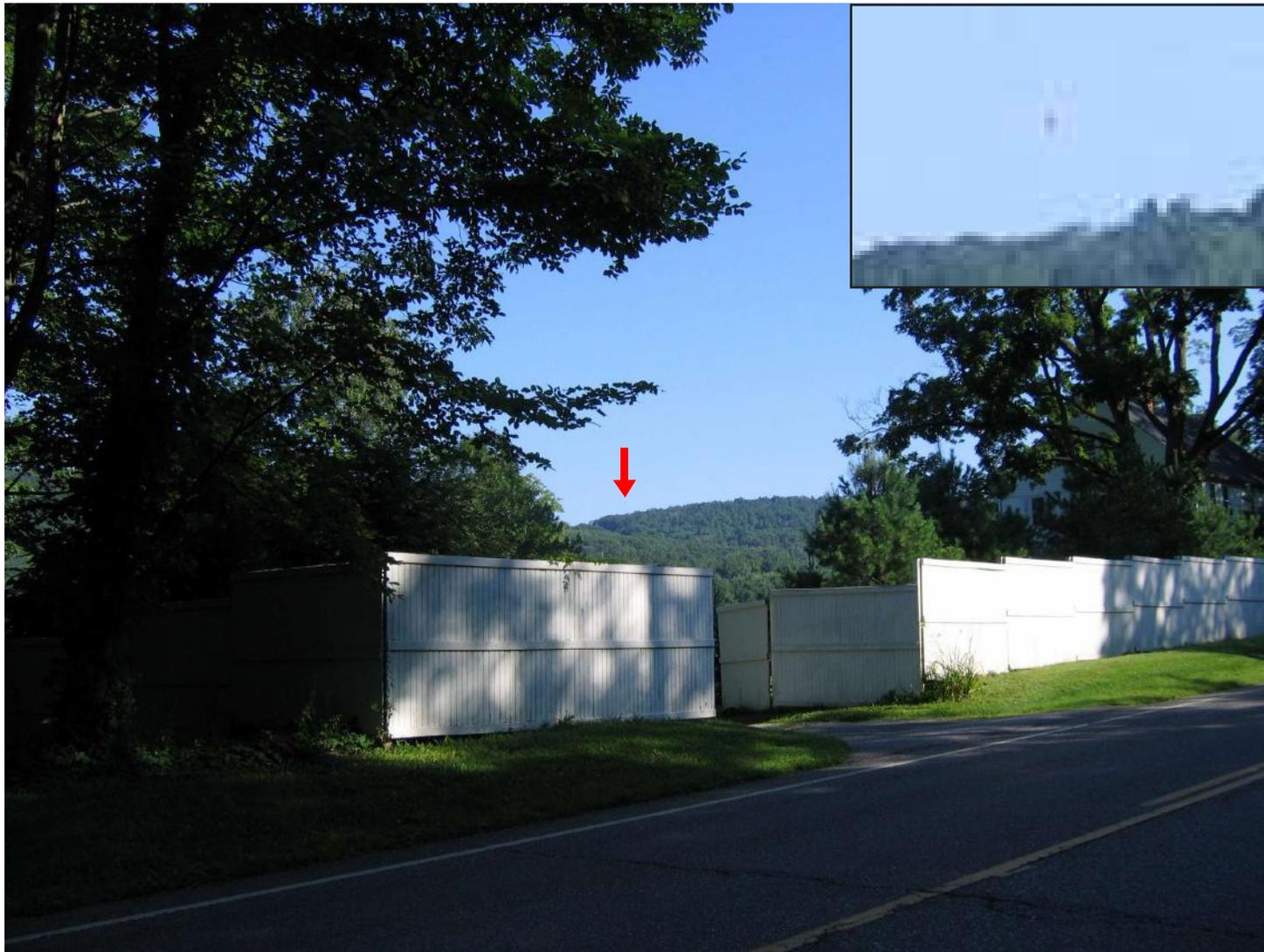
VIEW 4 - PROPOSED VIEW  
FROM RABBIT HILL ROAD LOOKING  
NORTH TOWARD SITE



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SITE: WARREN



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VIEW 5 - EXISTING VIEW  
FROM 128 ROUTE 202 LOOKING  
NORTH TOWARD SITE



DATE: DEC 2008

SITE: WARREN

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VIEW 5 - PROPOSED VIEW  
FROM 128 ROUTE 202 LOOKING  
NORTH TOWARD SITE



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DATE: DEC 2008

SITE: WARREN



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VIEW 6 - EXISTING VIEW  
FROM 158 ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE



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SITE: WARREN



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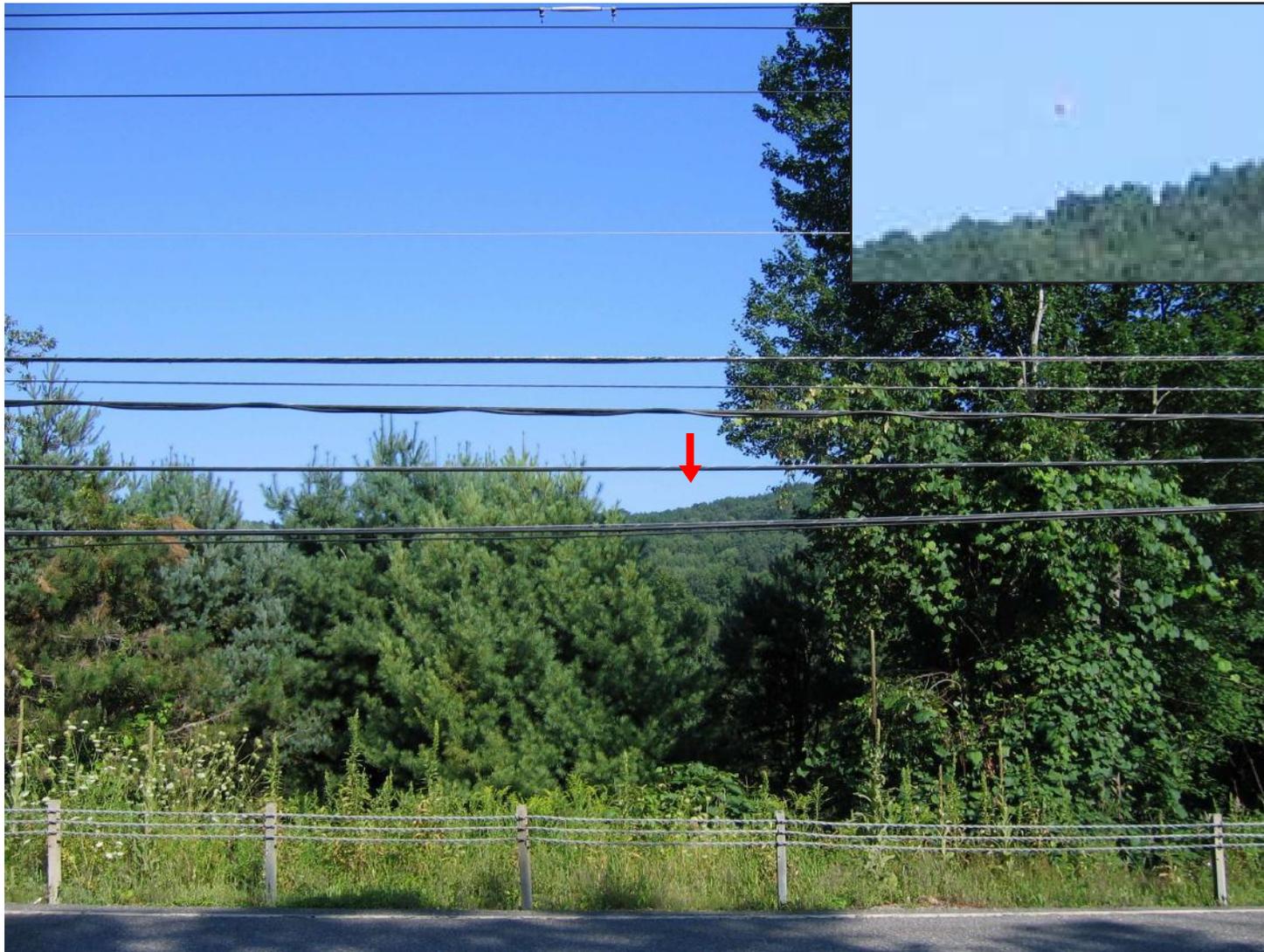
VIEW 6 - PROPOSED VIEW  
FROM 158 ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE



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SITE: WARREN



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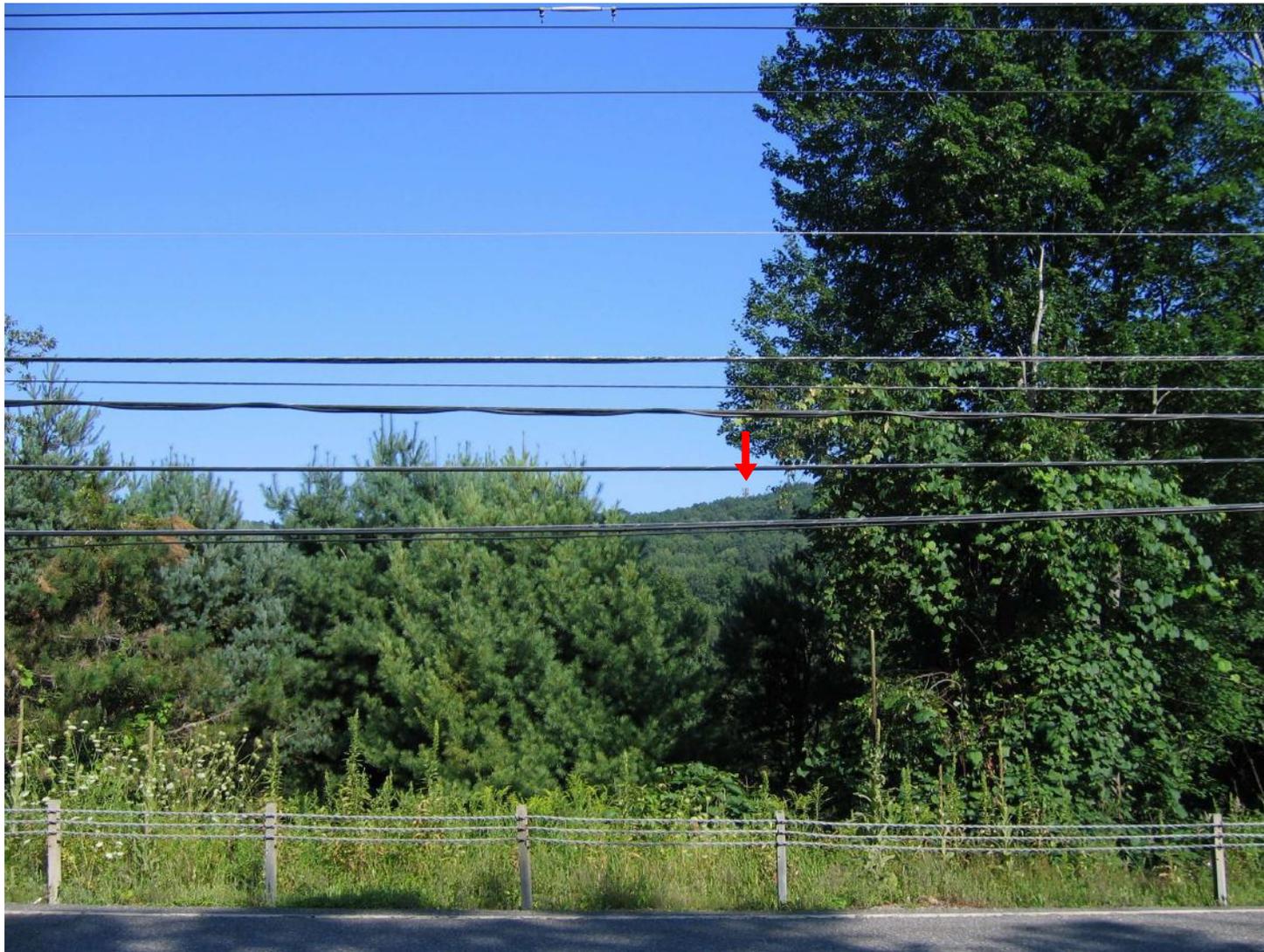
VIEW 7 - EXISTING VIEW  
FROM 171 ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE



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VIEW 7 - PROPOSED VIEW  
FROM 171 ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE



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VIEW 8 - NON-VISIBLE VIEW  
FROM 185 ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE



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SITE: WARREN



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VIEW 9 - NON-VISIBLE VIEW  
116 CHRISTIAN ROAD LOOKING  
NORTHEAST TOWARD SITE



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SITE: WARREN



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VIEW 10 - NON-VISIBLE VIEW  
30 WHITLESEY ROAD LOOKING  
NORTH TOWARD SITE



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SITE: WARREN



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VIEW 11 - NON-VISIBLE VIEW  
FROM 12 WHITLESEY ROAD LOOKING  
NORTH TOWARD SITE



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VIEW 12 - NON-VISIBLE VIEW  
FROM 83 ROUTE 202 LOOKING  
NORTHEAST TOWARD SITE



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VIEW 13 - NON-VISIBLE VIEW  
FROM INTERSECTION OF  
WOODSVILLE ROAD AND JACK CORNER  
ROAD LOOKING SOUTHWEST  
TOWARD SITE



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VIEW 14 - NON-VISIBLE VIEW  
FROM INTERSECTION OF TANNER  
HILL ROAD AND RABBIT HILL ROAD  
LOOKING SOUTHEAST TOWARD SITE



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SITE: WARREN



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VIEW 15 - EXISTING VIEW  
FROM INTERSECTION OF RABBIT HILL  
ROAD AND ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE  
(SEASONALLY VISIBLE)



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VIEW 15 - PROPOSED VIEW  
FROM INTERSECTION OF RABBIT HILL  
ROAD AND ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE  
(SEASONALLY VISIBLE)



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VIEW 16 - EXISTING VIEW  
FROM 85 JACK CORNER ROAD  
LOOKING SOUTHEAST  
TOWARDS THE SITE



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DATE: DEC 2008

SITE: WARREN



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VIEW 16 - PROPOSED VIEW  
FROM 85 JACK CORNER ROAD  
LOOKING SOUTHEAST  
TOWARDS THE SITE



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VIEW 17 - NON-VISIBLE VIEW  
FROM JACK CORNER ROAD LOOKING  
SOUTHEAST TOWARDS THE SITE



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DATE: DEC 2008

SITE: WARREN



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VIEW 18 - EXISTING VIEW  
FROM OWNER'S PROPERTY  
(RABBIT HILL ROAD) LOOKING  
SOUTHEAST TOWARDS THE SITE



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DATE: DEC 2008

SITE: WARREN



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VIEW 18 - PROPOSED VIEW  
FROM OWNER'S PROPERTY  
(RABBIT HILL ROAD) LOOKING  
SOUTHEAST TOWARDS THE SITE



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VIEW 19 - EXISTING VIEW  
FROM OWNER'S PROPERTY  
(RABBIT HILL ROAD) LOOKING  
SOUTHEAST TOWARDS THE SITE



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VIEW 19 - PROPOSED VIEW  
FROM OWNER'S PROPERTY  
(RABBIT HILL ROAD) LOOKING  
SOUTHEAST TOWARDS THE SITE



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DATE: DEC 2008

SITE: WARREN



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VIEW 20 - NON-VISIBLE VIEW  
FROM OWNER'S PROPERTY  
(RABBIT HILL ROAD) LOOKING  
NORTHWEST TOWARDS THE SITE



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VIEW 21 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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VIEW 22 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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VIEW 23 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL PEAK LOOKING NORTHEAST  
TOWARDS THE SITE



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VIEW 24 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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VIEW 25 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 26 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



Optasite Towers LLC  
1 Research Drive, Suite 200C  
Westborough, MA 01581

DATE: DEC 2008

SITE: WARREN



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



CLOUGH HARBOUR & ASSOCIATES LLP

VIEW 27 - NON-VISIBLE VIEW  
FROM MOUNT TOM LOOKOUT  
TOWER LOOKING NORTHWEST  
TOWARDS THE SITE



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DATE: DEC 2008

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**ATTACHMENT C:  
Site B Viewshed Map**



**NOTES:**

1. Only visible areas are shown on the map utilizing the process described in note 2. The remainder of the map has been estimated to be nonvisible utilizing the process described in note 3.
2. Seasonal and year round areas of visibility were estimated from a field visual analysis within public R.O.W. and public properties. Areas shown on private property were interpolated from the field visual analysis.
3. Nonvisible areas were estimated from a computer generated topography & vegetation analysis and field verification of vegetation & building screening within public R.O.W and public properties. Vegetation limits were determined from 2004 aerial photos and is assumed to be 65' high. Verification of vegetation height, coverage, and type within private areas not visible from public R.O.W or public properties was not field verified.
4. Historical areas were determined from national and state historical registers.
5. Parks, schools, cemeteries, and churches were determined from street maps and field observations.
6. Scenic roads, if any, were determined from the CTDOT list of designated scenic roads and field observations.

**Legend**

	APPROXIMATE LOCATION OF PROPOSED 160' MONOPOLE		COMPUTER SIMULATION PHOTOGRAPH LOCATION
	APPROXIMATE LIMIT OF YEAR ROUND TOWER VISIBILITY		APPROXIMATE LIMIT OF SEASONAL TOWER VISIBILITY *COMPLETED DURING LEAF OFF CONDITIONS
	CHURCH/CEMETERY		PARK
	HISTORICAL SITE		SCHOOL
TRAIL OR SCENIC ROAD			

**Visibility by Acreage**

ITEM	APPROXIMATE ACRES	% OF TOTAL AREA
2 MILE RADIUS AREA	8,053	100%
NOT VISIBLE DUE TO TOPOGRAPHY	4,692	58.3%
NOT VISIBLE DUE TO VEGETATION	3,236	40.1%
VISIBLE YEAR ROUND	79	1.0%
POTENTIAL SEASONAL VISIBILITY	46	0.6%

**Distances from Photo Locations to Tower**

PHOTO	DIST. (FT)						
01	490	08	3,860	15	4,000	22	7,190
02	1,230	09	9,940	16	1,170	23	8,490
03	1,370	10	7,310	17	1,340	24	6,530
04	900	11	7,230	18	270	25	4,630
05	5,110	12	6,490	19	460	26	5,540
06	4,190	13	3,730	20	1,140	27	12,840
07	3,890	14	3,550	21	7,470		

**2 MILE VIEWSHED ANALYSIS MAP**  
**WARREN 2**  
**VISUAL IMPACT ASSESSMENT**

PREPARED FOR:

OPTASITE TOWERS LLC  
1 RESEARCH DRIVE, SUITE 200C  
WESTBOROUGH, MA 01581

PREPARED BY:

2139 Siles Deane Highway, Suite 212 - Rocky Hill, CT 06067-2336  
Mail: (860) 267-4557 - www.chacompanies.com

CHA Project No. 15363-1040-1601

FEBRUARY 2009

NORTH  
**FIGURE VS-01**

- |  |   |   |   |   |
|--|---|---|---|---|
| <b>Historic Sites:</b><br>NO HISTORIC SITES WERE LOCATED WITHIN THE STUDY AREA | <b>Parks:</b><br>P01 WYANTENOCK STATE FOREST<br>P02 MOUNT TOM STATE PARK<br>P03 HIDDEN VALLEY RESERVATION<br>P04 MACRICOSTAS PRESERVE | <b>Schools:</b><br>S01 RUMSEY HALL SCHOOL | <b>Church/Cemetery:</b><br>NO CHURCHES OR CEMETERIES WERE LOCATED WITHIN THE STUDY AREA | <b>Scenic Roads:</b><br>R01 ROUTE 45 / SR 478 LOOP AROUND LAKE WARAMAUG<br>R02 WHITTLESEY ROAD<br>R03 RABBIT HILL ROAD<br>R04 COUCH ROAD<br>R05 ROUTE 202 (PENDING SCENIC ROAD) |
|--|---|---|---|---|

**Visibility by Residence**

STREET	RESIDENCES
WHITTLESEY ROAD	1 (S)
ROUTE 202	1 (Y), 9 (S)
RABBIT HILL RD	2 (Y), 1 (S)
JACK CORNER RD	2 (Y)

(S) = SEASONAL VIEW  
(Y) = YEAR ROUND VIEW

**ATTACHMENT D:**  
**Site B Photosims**



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 1 – EXISTING VIEW FROM  
RABBIT HILL ROAD NEAR FARM  
HOUSE LOOKING SOUTHEAST  
TOWARD SITE



Optasite Towers LLC  
1 Research Drive, Suite 200C  
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DATE: FEB 2009

SITE: WARREN 2



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VIEW 1 – PROPOSED VIEW FROM  
RABBIT HILL ROAD NEAR FARM  
HOUSE LOOKING SOUTHEAST  
TOWARD SITE



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VIEW 2 – EXISTING VIEW FROM  
INTERSECTION OF RABBIT HILL ROAD  
AND JACK CORNER ROAD LOOKING  
SOUTHEAST TOWARD SITE



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DATE: FEB 2009

SITE: WARREN 2



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VIEW 2 – PROPOSED VIEW FROM  
INTERSECTION OF RABBIT HILL ROAD  
AND JACK CORNER ROAD LOOKING  
SOUTHEAST TOWARD SITE



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VIEW 3 – EXISTING VIEW FROM 67  
JACK CORNER ROAD LOOKING SOUTH  
TOWARD SITE



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DATE: FEB 2009

SITE: WARREN 2



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VIEW 3 – PROPOSED VIEW FROM 67  
JACK CORNER ROAD LOOKING SOUTH  
TOWARD SITE



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VIEW 4 – EXISTING VIEW FROM  
RABBIT HILL ROAD LOOKING NORTH  
TOWARD SITE



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DATE: FEB 2009

SITE: WARREN 2



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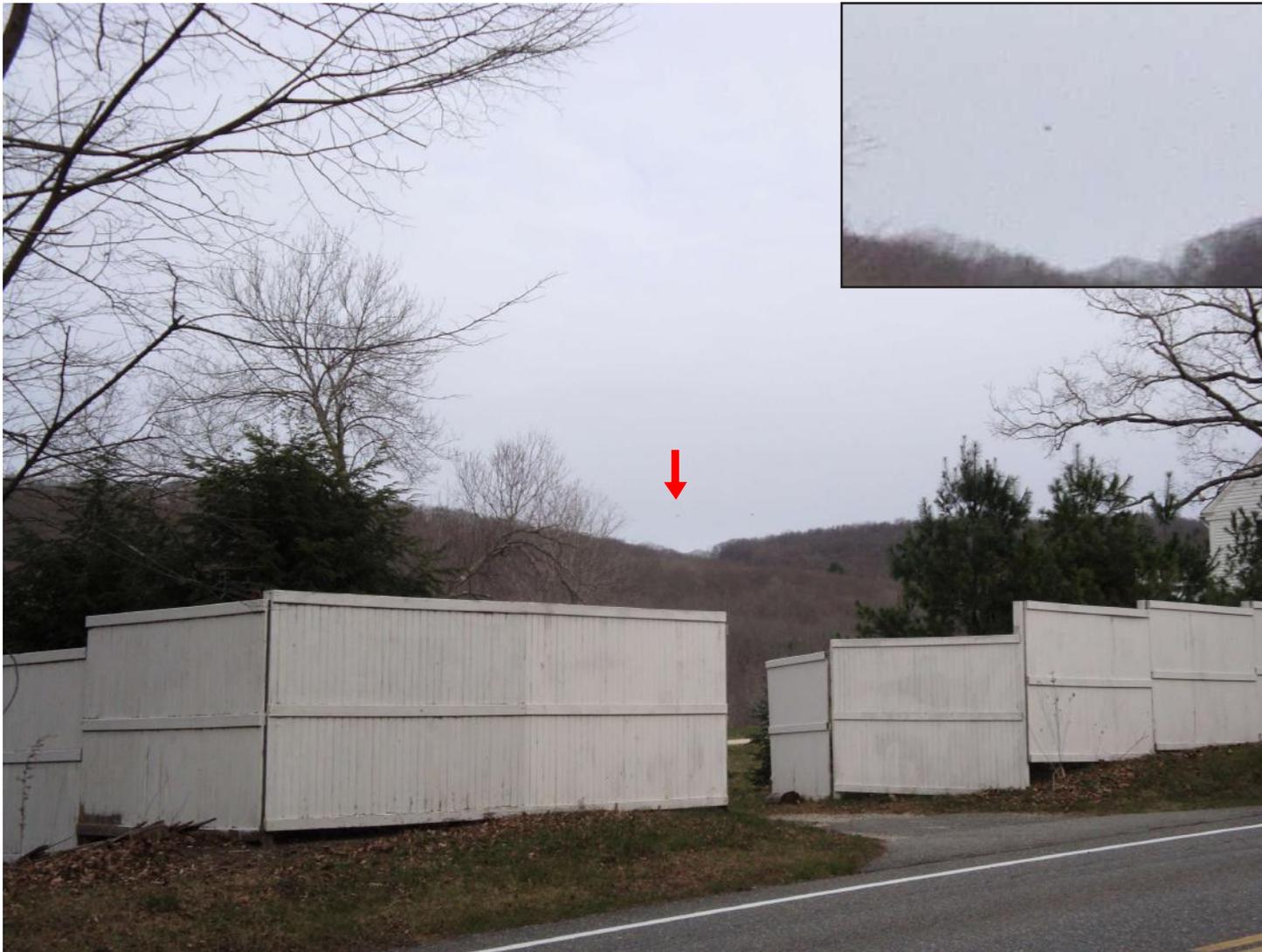
VIEW 4 – PROPOSED VIEW FROM  
RABBIT HILL ROAD LOOKING NORTH  
TOWARD SITE



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DATE: FEB 2009

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VIEW 5 – EXISTING VIEW FROM  
128 ROUTE 202 LOOKING NORTH  
TOWARD SITE



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VIEW 5 – PROPOSED VIEW FROM  
128 ROUTE 202 LOOKING NORTH  
TOWARD SITE



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VIEW 6 – EXISTING VIEW FROM 158  
ROUTE 202 LOOKING NORTHWEST  
TOWARD SITE



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DATE: FEB 2009

SITE: WARREN 2



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VIEW 6 – PROPOSED VIEW FROM 158  
ROUTE 202 LOOKING NORTHWEST  
TOWARD SITE



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SITE: WARREN 2



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VIEW 7 – EXISTING VIEW FROM 171  
ROUTE 202 LOOKING NORTHWEST  
TOWARD SITE  
(SEASONALLY VISIBLE)



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SITE: WARREN 2



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VIEW 7 – PROPOSED VIEW FROM 171  
ROUTE 202 LOOKING NORTHWEST  
TOWARD SITE  
(SEASONALLY VISIBLE)



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VIEW 8 – NON-VISIBLE VIEW FROM  
185 ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE



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SITE: WARREN 2



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VIEW 9 – NON-VISIBLE VIEW FROM  
116 CHRISTIAN ROAD LOOKING  
NORTHEAST TOWARD SITE



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SITE: WARREN 2



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VIEW 10 – EXISTING VIEW FROM 30  
WHITLESEY ROAD LOOKING NORTH  
TOWARD SITE  
(SEASONALLY VISIBLE)



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VIEW 10 – PROPOSED VIEW FROM 30  
WHITLESEY ROAD LOOKING NORTH  
TOWARD SITE  
(SEASONALLY VISIBLE)



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VIEW 11 – NON-VISIBLE VIEW  
FROM 12 WHITLESEY ROAD LOOKING  
NORTH TOWARD SITE



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VIEW 12 – NON-VISIBLE VIEW  
FROM 83 ROUTE 202 LOOKING  
NORTHEAST TOWARD SITE



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SITE: WARREN 2



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VIEW 13 – NON-VISIBLE VIEW  
FROM INTERSECTION OF  
WOODSVILLE ROAD AND  
JACK CORNER ROAD LOOKING  
SOUTHWEST TOWARD SITE



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VIEW 14 – NON-VISIBLE VIEW  
FROM INTERSECTION OF TANNER  
HILL ROAD AND RABBIT HILL ROAD  
LOOKING SOUTHEAST TOWARD SITE



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VIEW 15 – EXISTING VIEW  
FROM INTERSECTION OF RABBIT  
HILL ROAD AND ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE  
(SEASONALLY VISIBLE)



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VIEW 15 – PROPOSED VIEW  
FROM INTERSECTION OF RABBIT  
HILL ROAD AND ROUTE 202 LOOKING  
NORTHWEST TOWARD SITE  
(SEASONALLY VISIBLE)



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VIEW 16 – EXISTING VIEW  
FROM 85 JACK CORNER ROAD  
LOOKING SOUTH TOWARDS THE SITE



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SITE: WARREN 2



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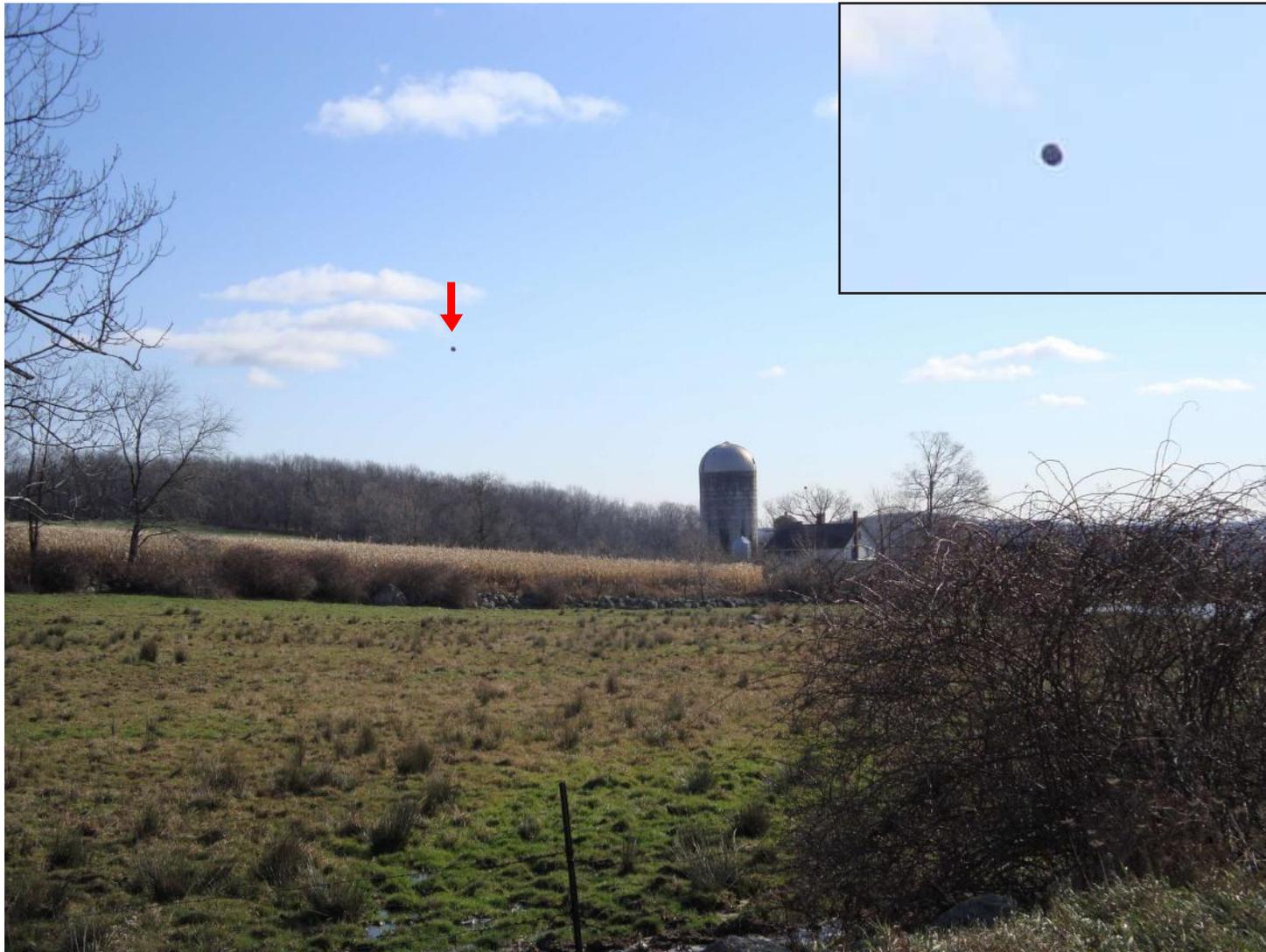
VIEW 16 – PROPOSED VIEW  
FROM 85 JACK CORNER ROAD  
LOOKING SOUTH TOWARDS THE SITE



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VIEW 17 – EXISTING VIEW  
FROM JACK CORNER ROAD LOOKING  
SOUTHEAST TOWARDS THE SITE



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VIEW 17 - PROPOSED VIEW  
FROM JACK CORNER ROAD LOOKING  
SOUTHEAST TOWARDS THE SITE



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VIEW 18 - EXISTING VIEW  
FROM OWNER'S PROPERTY (RABBIT  
HILL ROAD) LOOKING NORTHEAST  
TOWARD SITE



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SITE: WARREN 2



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VIEW 18 - PROPOSED VIEW  
FROM OWNER'S PROPERTY (RABBIT  
HILL ROAD) LOOKING NORTHEAST  
TOWARD SITE



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DATE: FEB 2009

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VIEW 19 - EXISTING VIEW  
FROM OWNER'S PROPERTY (RABBIT  
HILL ROAD) LOOKING NORTHEAST  
TOWARD SITE



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VIEW 19 - PROPOSED VIEW  
FROM OWNER'S PROPERTY (RABBIT  
HILL ROAD) LOOKING NORTHEAST  
TOWARD SITE



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DATE: FEB 2009

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VIEW 20 - EXISTING VIEW  
FROM OWNER'S PROPERTY (RABBIT  
HILL ROAD) LOOKING NORTHEAST  
TOWARD SITE



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DATE: FEB 2009

SITE: WARREN 2



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VIEW 20 - PROPOSED VIEW  
FROM OWNER'S PROPERTY (RABBIT  
HILL ROAD) LOOKING NORTHEAST  
TOWARD SITE



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VIEW 21 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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Westborough, MA 01581

DATE: FEB 2009

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VIEW 22 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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VIEW 23 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL PEAK LOOKING NORTHEAST  
TOWARDS THE SITE



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1 Research Drive, Suite 200C  
Westborough, MA 01581

DATE: FEB 2009

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Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 24 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 25 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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VIEW 26 - NON-VISIBLE VIEW  
FROM MACRICOSTAS PRESERVE  
TRAIL LOOKING NORTHEAST  
TOWARDS THE SITE



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VIEW 27 - NON-VISIBLE VIEW  
FROM MOUNT TOM LOOKOUT  
TOWER LOOKING NORTHWEST  
TOWARDS THE SITE



Optasite Towers LLC  
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